AMENDMENT

In the Abstract:

Please replace the abstract of the invention with the following rewritten abstract:

A sensor and method are provided for sensing a physical stimulus in an integrated amount, such as thermal energy and produce a signal that indicates a quantitative value of the physical stimulus along with a value that indicates the operability of the sensor and a value that indicates a sense operation is in process. The sensor and method minimize the number of input and output pins necessary for a sensor to report a measurement response of a physical stimulus.

In the Specification:

Please amend page 5, paragraph 4 to page 7 paragraph 2 as follows:

Figure 1 is a block diagram of an exemplary integrated circuit 12 that is suitable for practicing the illustrative embodiment of the present invention. The sensor 14 is an active device within the exemplary integrated circuit 12. The sensor 14 includes a register 15 to hold a response to a physical stimulus. Coupled to the sensor 14 are the clock input node 24, the power input node 22, the ground node 20, the input node 18 and the output node 16. Input node 18 and output node 16 provide the sensor 14 with an interface external to the exemplary integrated circuit 12. The power input node 22 is tied to a voltage source that can be controlled independently of the voltage source supplying a voltage level to the remainder of the active devices within the exemplary integrated circuit 12. The clock node 24 is also coupled to a clock source or driver that can be controlled independently of any other clock source driver within the exemplary integrated